STATEMENT OF WORK
FOR THE
MINE CLEARANCE LAUNCHER
MK 154
NSN 1055-01-226-6338
Inspect Repair Only As Necessary
(IROAN)
B1315

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STATEMENT OF WORK FOR THE
MINE CLEARANCE LAUNCHER MK 154
NSN 1055-01-226-6338
Inspect Repair Only As Necessary (IROAN)

1.0 SCOPE. This Statement of Work (SOW) establishes and sets forth tasks and identifies the work efforts that shall be performed by the Contractor in the IROAN effort of the **Mine Clearance Launcher (MCL) MK 154,** hereafter referred to as the **MK 154**. This document contains requirements to restore the **MK 154** to Condition Code "A." "Condition Code A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction, including materiel with more than 6 months shelf-life remaining." National Stock Number **(NSN) 1055-01-226-6338** shall be known as the **MK 154**.

1.1 Background. IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 APPLICABLE DOCUMENTS. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 MILITARY SPECIFICATIONS

MIL-C-46168	-	Coating, Aliphatic Polyurethane, Chemical Agent Resistant
MIL-C-53039	-	Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant

2.2 MILITARY STANDARDS

MIL-STD-129	-	DoD Standard Practice for Military Marking
MIL-STD-130	-	Identification Marking of US Military Property
MIL-STD-461	-	Requirements for the control of Electromagnetic Interference Emission and Susceptibility

2.3 OTHER GOVERNMENT DOCUMENTS AND PUBLICATIONS

DOD 4000.25-1-M	-	MILSTRIP Manual

DOD 4160.21-M-1	-	Defense Materiel Disposition Manual
NAVICPINST 4491.2A	-	Requisitioning of Contractor Furnished Material From The Federal Supply System
SL-3-09962A	-	Launcher, Mine Clearance MK 154 Mod 0
TM 09962A-13&P/2	-	Mark 1 Mod 0 Mine Clearance System
TI-09962A-35/1	-	Fabrication and Installation of Electrical Connector Guard for the Launcher, Mine Clearance MK 154
TM 3080-12	-	Corrosion Prevention and Control for Marine Corps Equipment.
TM 3080-50	-	Corrosion Control Procedures Depot Maintenance Activities for Marine Corps Equipment
TM 4700-15/1H	-	Ground Equipment Record Procedures
TM 4750-15/1	-	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment
TM 4750-15/2	-	Camouflage Paint Patterns
835028A0000	-	Mine Clearance Launcher, MK 154, Marine Corps Engineering Drawing
835028B0000	-	Container Assembly for MK 154, Marine Corps Engineering Drawing

Military Handbooks (For Guidance)

MIL-HDBK-61	-	Configuration Management Guidance

2.4 Industry Standards

ANSI/ISO/ASQC Q9002-1994	-	Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing
ASTM D 3951-98	-	Standard Practice for Commercial Packaging

Industry Standards (For Guidance)

ANSI/EIA-649	-	National Consensus Standard for Configuration Management

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (215) 697-2179 or DSN 442-2179, or http://www.dodssp.daps.mil. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the contracting officer: Commander, Marine Corps Logistics Bases, (Code 891) Attn: Contracting Officer, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (229) 639-6753 or DSN 567-6753. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn: (Code 851-3), Marine Corps Logistics Bases, 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

3.0 REQUIREMENTS

3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall:

a. Provide materials, labor, facilities, missing parts, and repair parts necessary to inspect, diagnose, restore, and test the **MK 154**. Upon completion of IROAN, repaired equipment shall be Condition Code "A".

b. Provide all tools and test equipment required to test, inspect, repair, and calibrate the **MK 154** .

c. Conduct in-process and final on-site testing for witness by an MCLB (Code 837-1), Albany, representative.

d. Be responsible for all structural, electrical and mechanical requirements associated with the restoration of the **MK 154**.

3.2 Detail Tasks. The following tasks describe the different phases for IROAN of the **MK 154**.

3.2.1 Phase I - Pre-induction. The contractor shall perform a pre-induction inspection analysis for each **MK 154** using the Contractor's diagnosis, inspection and testing techniques to determine extent of work and parts required. This inspection shall included all items associated with the **MK 154** as found in SL-3-09962A, TM 09962A-13&P/2, and TI-09962A-35/1. These findings shall be annotated on a Pre-Induction Check List (Appendix A) and shall be provided to the government in accordance with Paragraph 4.0 of this SOW.

3.2.2 Phase II - IROAN. After pre-induction tests and inspections have been completed, repair of the **MK 154** shall be accomplished by the contractor in accordance with this SOW. Deficiencies noted on the Pre-Induction Checklist, (Appendix A), during Phase I shall be repaired/replaced. The contractor shall use the "List of Defective Parts and Assemblies (Appendix B)" to list all defective parts and assemblies. The contractor shall also use the "List of Repair Parts and Assemblies Required for Repairs (Appendix C)", to report the parts used on the repaired **MK 154.** Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair.

a. Pre-Induction Checklist - Information recorded on the Pre-Induction Checklist (Appendix A) shall be used as a guide to repair the **MK 154** system in accordance with this SOW.

b. Technical Instruction (TI) - All TI's not previously applied to the **MK 154** shall be applied during the IROAN and shall be annotated on Equipment Record Jacket in accordance with TM 4700-15/1H.

c. Corrosion - For corrosion prevention and treatment use TM 3080-12 and TM 3080-50.

d. Fluid Leaks - The following shall be used as a guide in determining degree of fluid loss:

(1) Class I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

(2) Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.

(3) Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

NOTE:

A class I leak, except in fuel or brake systems, is an acceptable condition at any time and does not require corrective action.

e. Belts - Replace all.

f. Data Plates - All required data plates and decals shall be in place and shall be legible. Each repaired **MK 154** shall have an IROAN data plate affixed to the main unit in close proximity to the existing data plate. The data plate shall meet the requirements of MIL-STD-130 and TM 4750-15/1 and shall contain the Equipment Serial Number, date of IROAN, Date of SOW, SOW number, and Company name of contractor completing work.

g. Painting/Coating (Exterior/Interior) - If painting/coating is required, the **MK 154** shall be cleaned in accordance with TM 3080-50, Chapter 4, and coated with Aliphatic Polyurethane Coating, in accordance with MIL-C-46168 or MIL-C-53039 using TM 4750-15/2 as pattern guidance if required.

h. Demilitarization - All end items that are identified as non-repairable and require demilitarization codes, shall be reported to the Marine Corps Logistics Bases representatives Code 837-1, who will provide disposition instructions in accordance with DOD 4160.21-M-1.

i. Electromagnetic Emission - All requirements pertaining to control of electromagnetic interference, emission and susceptibility shall be in accordance with MIL-STD-461.

j. Hardware

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, mandatory, safety, and one-time use items, etc., in accordance with TM 09962A-13&P/2. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present and operational on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

k. Hoses - All hoses and fittings shall be visually inspected for damage or deterioration. Any hose showing signs of leakage, kinking or separation of outer coating shall be replaced. This inspection shall be performed during the Operational Test Inspection (OTI) of the **MK 154**.

l. Cable Assemblies - All cables and cable connections shall be tested and visually inspected for damage or corrosion. Any cable or cable connector showing signs of damage, corrosion or separation of outer coating shall be repaired/replaced and tested with its respective component/assembly to assure satisfactory compliance with all operational tests.

m. Filters - Replace all.

3.2.3 Phase III - Inspection, Testing and Acceptance

a. The contractor shall conduct Inspection, Testing and Acceptance of the **MK 154** in accordance with TM 09962A-13&P/2.

b. The Contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance tests shall be held at the Contractor Facility. MCLB (Code 837-1), Albany, Georgia, representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment parts, components, etc., not required for the test.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB (Code 837-1), Albany, Georgia, representatives may require the Contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing/Operational Tests on all **MK 154** repaired under the provisions of this SOW shall be accomplished, by the contractor, in accordance with TM 09962A-13&P/2. Operational Tests are to be conducted on each **MK 154** upon completion of repairs and prior to the equipment being returned to stock, to insure the unit will perform as required.

3.2.4 Phase IV - Packaging, Handling, Storage, and Transportation (PHS&T).

a. The Contractor shall be responsible for preservation and packaging of item(s) being repaired under the terms of this statement of work. All items shall be in accordance with the best commercial practices of ASTM D 3951-98.

b. Marking shall be in accordance with MIL-STD-129.

c. The Marine Corps will provide the contractor with the shipping address(es) for delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the contractor.

3.3 Configuration Management

3.3.1 Configuration Status Accounting (CSA).

a. The contractor shall record and submit data on retrofit accomplished during Phase II. Any approved Modifications Instructions (MIs) or Engineering Change Proposals (ECPs) not previously applied shall be incorporated during Phase II of the IROAN process.

b. The Contractor shall determine the application status of approved configuration changes by visual inspections to the extent possible. The government will identify the configuration changes to be inspected by furnishing a Configuration Inspection Checklist to the Contractor. The Contractor shall use one checklist per **MK 154** to record the inspection findings along with other required data.

c. The Contractor shall record serial numbers of the assemblies listed on the Configuration Inspection Checklist. The Contractor shall also record the information on the Equipment Record Jacket in accordance with TM 4700-15/1H

3.3.2 Configuration Control. The contractor shall apply configuration control procedures to established configuration items. The baseline configuration for the MK 154 has been established by Marine Corps Drawing numbers 835028A0000 for the Mine Clearance Launcher and 835028B0000 for the container and applicable MIs and ECPs. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation. MIL-HDBK-61 (paragraph 4.3 and Table 4-9) and ANSI/EIA-649 (paragraph 5.3.4) provide guidance for preparing this configuration control document.

3.4 Quality Assurance Provisions

The Contractor shall provide and maintain a Quality System that as minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002 1994 Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing.

3.5 Acceptance.

The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in-process review and inspection during performance. Inspection may be accomplished in-plant or at any work site or location, and Marine Corps (MCLBA, Code 837-1) representatives shall be permitted to observe the work or to conduct inspection at all reasonable hours. Final inspection and acceptance testing shall be conducted at the Contractor Facility. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

3.6 Rejection

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB (Code 837-1), Albany, representative. The Contractor shall, at no additional cost to MCLB, Albany, Georgia, provide the following:

a. Develop an approach for modification or correction of all deficiencies.

b. Upon approval of a documented approach, the Contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

3.7 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM)
GFE is government owned equipment authorized by contract for use by a commercial/Government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into product being manufactured/remanufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements the Management Control Activity (MCA/Code 827-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets. The Contractor shall report receipt of all GFM and report consumption of GFM to the MCA.

3.8 Contractor Furnished Materiel (CFM). The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Materiel is required for repair parts, the contractor shall requisition through the DoD Supply System. DOD 4000.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DoD Supply System.

4.0 REPORTS

4.1 Repairable Item Inspection Report. The Contractor shall provide a Repairable Item Inspection Report for each **MK 154.** The report shall be identified by United States Marine Corps Serial Number.

4.2 Monthly Progress Reports. The Contractor shall provide Monthly Progress Reports summarizing the progress and status of the IROAN Program.

4.3 Pre-Induction Checklist. The Contractor shall complete the, Pre-Induction Inspection Checklist (Appendix A), List of Defective Parts and Assemblies (Appendix B), List of Repair Parts and Assemblies Required for Repairs (Appendix C), for each **MK 154** repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to MCLB, Albany, Georgia, Code 837-1, 30 days after final acceptance of each **MK 154** in PDF Format Media.

The inspection checklist shall contain, but not be limited to the following:

(1) **MK 154** serial number. Appendix A
(2) Condition Code of **MK 154** at receipt. Appendix A
(3) Results of operational test. Appendix A
(4) List of defective parts and assemblies. Appendix B
(5) List of repair parts and assemblies required for repairs. Appendix C
(6) Corrosion prevention methods that shall be used. Appendix A

PRE-INDUCTION CHECKLIST

Serial number:_____ Condition Code at receipt: _____

Results of operational test:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

List of defective parts and assemblies. Appendix A

List of repair parts and assemblies required for repairs. Appendix C

Corrosion prevention methods that shall be used.

_____

_____

_____

_____

_____

_____

_____

_____

_____

Inspect all components for operating/malfunction/defective parts per TM 09962A-13&P/2. Visually check components for leaks, damage, loose parts & hardware. No disassembly of components is allowed unless the component is determined to be defective.

COMPONENT:	Pass	Fail	Remarks:
Mast Assy	____	____	_____
External-Actuator Cover	____	____	_____
Actuator Arm Lever	____	____	_____
Housing to Actuator Assy	____	____	_____
Hose Assy,Starboard	____	____	_____
Starboard Actuator Manifold	____	____	_____
Starboard Actuator Assy	____	____	_____
Housing-Actuator Hydraulic	____	____	_____
Hose Assy, Port	____	____	_____
Housing - Actuator Hydraulic	____	____	_____
System, Port	____	____	_____
Port Actuator Manifold	____	____	_____
Port Actuator Assy	____	____	_____
Starboard/Port Hinge Arm	____	____	_____
Starboard Door Assy	____	____	_____
Door Seals	____	____	_____

PRE-INDUCTION CHECKLIST

Door Latch Rod, Starboard Door	____	____	_____
Port Door Assy	____	____	_____
Wiring Harness W16	____	____	_____
Platform, Equipped for Access	____	____	_____
COMPONENT:	____	____	_____
Launcher Cylinder Hydraulic Hose Assy	Pass	Fail	_____
Launch Cylinder Hose Assys	____	____	Remarks:
Launcher Cylinder	____	____	_____
Launcher Cylinder Swivel Joint	____	____	_____
Elevation Cylinder Hose Assys	____	____	_____
Elevation Cylinder Swivel Joint & Elbows	____	____	_____
Elevation Cylinder Assy	____	____	_____
Elevation Cylinder Manifold	____	____	_____
Elevation Cylinder	____	____	_____
Turnbuckle Connecting Rod	____	____	_____
Elevation Cylinder Linkage Adjustment	____	____	_____
Connecting Rod	____	____	_____
Pivot Pin	____	____	_____
Pivot Bearings	____	____	__
Center Sheath	____	____	_____
Shield	____	____	_____
Launcher Platform Rail	____	____	_____
Travel Lock Assy	____	____	_____
Pivot Assy	____	____	_____
Bumper	____	____	_____
Stop	____	____	_____
Bracket, Connecting Rod	____	____	____
Mercury Switch Box	____	____	_____
Pendulum Box Assy	____	____	_____
Rockets Power Distribution Box	____	____	_____
Rocker Arm	____	____	_____
Support Arm	____	____	_____
Arm Sheath	____	____	_____
Port/Starboard Intermediate Sheath	____	____	_____
Sequence Lock Manifold	____	____	_____
Sequence Lock Manifold Hydraulic Assys	____	____	_____
Support Arm Tube Assys	____	____	_____
Elbow	____	____	_____
Elbow Bracket	____	____	_____
Three-Hole Bulkhead	____	____	_____
Tube Angle Mounting	____	____	_____
Launcher Housing Tube Assy	____	____	_____
Junction Box A	____	____	_____
Junction Box B	____	____	_____
Limit Switch	____	____	_____
Limit Switch Arm Bracket	____	____	_____
Wiring Harness W15	____	____	_____
Pivot Bracket	____	____	_____
Spring	____	____	_____
Test Plugs	____	____	_____

PRE-INDUCTION CHECKLIST

Nipple	____	____	_____
Coupler	____	____	_____
Lower Seal	____	____	_____
COMPONENT:	____	____	_____
Sheath	____	____	_____
Intermediate Housing Sheath	____	____	_____
Port Housing Guard	Pass	Fail	_____
Starboard Housing Guard	____	____	_____
Forward Port Housing Guard	____	____	_____
Aft Port Housing Guard	____	____	_____
Forward Starboard Housing Guard	____	____	_____
Aft Starboard Housing Guard	____	____	_____
Port/Starboard Bar	____	____	Remarks:
Swivel Elbow (Port H2)	____	____	_____
Tie-Down and Adapter Assy	____	____	_____
Tie-Down Adapter	____	____	_____
Tie-Down Assy	____	____	_____
Aft Wall Guard	____	____	_____
Aft Guard Assy	____	____	_____
Aft Port Guard	____	____	_____
Aft Starboard Guard	____	____	_____
Forward Guard Assy	____	____	_____
Cable Guide	____	____	_____
Starboard Cable Guide	____	____	_____
Aft Port Cable Guide	____	____	_____
Lower Engine Access Cover Latch	____	____	_____
Upper Engine Access Cover Striker	____	____	_____
Rail	____	____	_____
Center Channel Assy	____	____	_____
Aft Pallet Rail Tie-Down Bracket	____	____	_____
Port/Starboard Ramp	____	____	_____
Rear Pallet Assy	____	____	_____
Wear Plate	____	____	_____
Quick Release Pins	____	____	_____
Starboard Ramp Crossmember	____	____	_____
Ramp Wear Plates	____	____	_____
Aft Pallet	____	____	_____
Forward Pallet Assy	____	____	_____
Housing to Forward Pallet Hose Assys	____	____	_____
Capstan Hydraulic Hose Assy	____	____	_____
Forward Pallet Rail Tie-Down Bracket	____	____	_____
Quick Disconnect Coupler Fitting	____	____	_____
Power Distribution Box Assy	____	____	_____
Quick Disconnect Nipple Fitting	____	____	_____
200A Circuit Breaker	____	____	_____
2A Circuit Breaker	____	____	_____
10A Circuit Breaker	____	____	_____
200A Relay	____	____	_____
10A Relay	____	____	_____
Terminal Block	____	____	_____

PRE-INDUCTION CHECKLIST

Indicator Light Assy	____	____	_____
Toggle Switch	____	____	_____
COMPONENT:	____	____	_____
Slave Plug	____	____	_____
Capstan with Hydraulic Motor Assy	____	____	_____
Capstan Drum	____	____	_____
Reduction Gearbox	____	____	_____
Reduction Gearbox Lubricating Oils	Pass	Fail	_____
Reduction Gearbox Oil Change	____	____	_____
Hydraulic Filter Change	____	____	_____
Capstan Hydraulic Motor	____	____	_____
Hydraulic Power Unit	____	____	_____
Manual Hydraulic Pump	____	____	_____
Manual Hydraulic Pump Handle	____	____	_____
Electric Motor/Hydraulic Pump	____	____	___
Electric Motor/Hydraulic Pump	____	____	Remarks:
Control Manifold	____	____	_____
Reservoir Assy	____	____	_____
Sight Glass	____	____	_____
Relief Valve	____	____	_____
Pressure Gauge	____	____	_____
Manual Pump Outlet Tube	____	____	_____
Manual Pump Inlet Tube	____	____	_____
Clip Spring	____	____	_____
Hydraulic Pump Inlet Tube	____	____	_____
Hydraulic Pump Outlet Tube	____	____	_____
Wiring Harness W12	____	____	_____
Wiring Harness W13	____	____	_____
Wiring Harness W14	____	____	_____
Arm Switch	____	____	_____
Control Box	____	____	_____
Control Box & Mounting	____	____	_____
Brackets Assy	____	____	_____
Brackets	____	____	_____
Lamps	____	____	_____
Selector Knob	____	____	_____
Toggle Switch Guard	____	____	_____
Receptacles	____	____	_____
Receptacle Connections	____	____	_____
10A Relay	____	____	_____
Relay Connections	____	____	_____
Filters	____	____	_____
Filter Connections	____	____	_____
System Power Switch	____	____	_____
System Power Switch Connections	____	____	_____
Panel Light	____	____	_____
Panel Light Connections	____	____	_____
Push Switches	____	____	_____
Push Switch Connections	____	____	_____
Rotary Switch	____	____	_____

PRE-INDUCTION CHECKLIST

Rotary Switch Connections		
COMPONENT:		
Launch Angle Indicator		
Circuit Board Assy		
Circuit Board Assembly Connections		
Indicator Light		
Indicator Light Connections		
Raise/Lower Switch		
Raise/Lower Switch Connections	Pass	Fail
Electric Wire		
Wire Connections		
Container, Top		
Container , Bottom		
Gasket, Container Joint		

Remarks:

LIST OF DEFECTIVE PARTS AND ASSEMBLIES

COMPONENT:	REMARKS:
Mast Assy	
External-Actuator Cover	
Actuator Arm Lever	
Housing to Actuator Assy	
Hose Assy, Starboard	
Starboard Actuator Manifold	
Starboard Actuator Assy	
Housing-Actuator Hydraulic Hse	
Assy, Port	
Housing - Actuator Hydraulic	
System, Port	
Port Actuator Manifold	
Port Actuator Assy	
Starboard/Port Hinge Arm	
Starboard Door Assy	
Door Seals	
Door Latch Rod, Starboard Door	
Port Door Assy	
Wiring Harness W16	
Platform, Equipped for Access	
Launcher Cylinder Hydraulic Hose	
Assy	
Launch Cylinder Hose Assys	
Launcher Cylinder	
Launcher Cylinder Swivel Joint	
Elevation Cylinder Hose Assys	
Elevation Cylinder Swivel Joint &	
Elbows	
Elevation Cylinder Assy	
Elevation Cylinder Manifold	
Elevation Cylinder	
Turnbuckle Connecting Rod	
Elevation Cylinder Linkage	
Adjustment	
Connecting Rod	
Pivot Pin	
Pivot Bearings	
Center Sheath	
Shield	
Launcher Platform Rail	
Travel Lock Assy	
Pivot Assy	
Bumper	
Stop	
Bracket, Connecting Rod	
Mercury Switch Box	
COMPONENT:	

LIST OF DEFECTIVE PARTS AND ASSEMBLIES

Pendulum Box Assy
Rockets Power Distribution Box REMARKS:
Rocker Arm
Support Arm
Arm Sheath Port/Starboard
Intermediate Sheath
Sequence Lock Manifold
Sequence Lck Manifold Hydraulic Asy
Support Arm Tube Assys
Elbow
Elbow Bracket
Three-Hole Bulkhead Tube
Angle Mounting
Launcher Housing
Tube Assys
Junction Box A
Junction Box B
Limit Switch
Limit Switch Arm Bracket Wiring Harness W15
Pivot Bracket
Spring
Test Plugs
Nipple
Coupler
Lower Seal
Sheath
Intermediate Housing Sheath
Port Housing Guard Starboard
Housing Guard
Forward Port Housing Guard
Aft Port Housing Guard
Forward Starboard Housing Guard
Aft Starboard Housing Guard
Port/Starboard Bar
Swivel Elbow (Port H2)
Tie-Down and Adapter Assy
Tie-Down Adapter
Tie-Down Assy Aft Wall
Guard Aft Guard Assy Aft Port
Guard Aft Starboard Guard Forward
Guard Assy Cable Guide Starboard
Cable Guide Aft Port Cable Guide
Lower Engine Access Cover Latch
Upper Engine Acc Cover Strike Rail
COMPONENT:
Center Channel Assy

LIST OF DEFECTIVE PARTS AND ASSEMBLIES

Aft Pallet Rail Tie-Down Bracket
Port/Starboard Ramp
Rear Pallet Assy
Wear Plate REMARKS:
Quick Release Pins
Starboard Ramp Crossmember
Ramp Wear Plates
Aft Pallet
Forward Pallet Assy
Housing to Forward Pallet Hose Assys
Capstan Hydraulic Hose Assys
Forward Pallet Rail Tie-Down Bracket
Quick Disconnect Coupler Fitting
Power Distribution Box Assy
Quick Disconnect Nipple Fitting
200A Circuit Breaker
2A Circuit Breaker
10A Circuit Breaker
200A Relay
10A Relay
Terminal Block Indicator Light Assy
Toggle Switch Slave Plug Capstan with Hydraulic Motor Assy Capstan
Drum Reduction Gearbox
Reduction Gearbox Lubricating Oils
Reduction Gearbox Oil Change
Hydraulic Filter Change
Capstan Hydraulic Motor
Hydraulic Power Unit
Manual Hydraulic Pump
Manual Hydraulic Pump Handle
Electric Motor/Hydraulic Pump
Electric Motor/Hydraulic Pump
Control Manifold
Reservoir Assy
Sight Glass
Relief Valve
Pressure Gauge
Manual Pump Outlet Tube
Manual Pump Inlet Tube
Clip Spring
Hydraulic Pump Inlet Tube
Hydraulic Pump Outlet Tube
COMPONENT:
Wiring Harness W12
Wiring Harness W13

LIST OF DEFECTIVE PARTS AND ASSEMBLIES

Wiring Harness W14
Arm Switch
Control Box
Control Bx & Mounting Brackets Assy
Brackets REMARKS:
Lamps
Selector Knob
Toggle Switch Guard
Receptacles
Receptacle Connections
10A Relay
Relay Connections
Filters
Filter Connections
System Power Switch
System Power Switch Connections
Panel Light
Panel Light Connections
Push Switches
Push Switch Connections
Rotary Switch
Rotary Switch Connections
Launch Angle Indicator
Circuit Board Assy
Circuit Board Assy Connections
Indicator Light
Indicator Light Connections
Raise/Lower Switch
Raise/Lower Switch Connections
Electric Wire
Wire Connections
Container, Top
Container , Bottom
Gasket, Container Joint

LIST OF DEFECTIVE PARTS AND ASSEMBLIES

ADDITIONAL OBSERVATIONS:

LIST OF REPAIR PARTS AND ASSEMBLIES REQUIRED FOR REPAIRS

COMPONENT:	REMARKS:
Mast Assy	
External-Actuator Cover	
Actuator Arm Lever	
Housing to Actuator Assy Hose	
Assy,Strbrd Starboard Starboard	
Actuator Manifold	
Starboard Actuator Assy	
Housing-Actuator Hydraulic Hse	
Assy, Port	
Housing – Actuator Hydraulic	
System, Port	
Port Actuator Manifold	
Port Actuator Assy	
Starboard/Port Hinge Arm	
Starboard Door Assy	
Door Seals	
Door Latch Rod, Starboard Door	
Port Door Assy	
Wiring Harness W16	
Platform, Equipped for Access	
Launcher Cylinder Hydraulic Hose	
Assy	
Launch Cylinder Hose Assys	
Launcher Cylinder	
Launcher Cylinder Swivel Joint	
Elevation Cylinder Hose Assys	
Elevation Cylinder Swivel Joint &	
Elbows	
Elevation Cylinder Assy	
Elevation Cylinder Manifold	
Elevation Cylinder	
Turnbuckle Connecting Rod	
Elevation Cylinder Linkage	
Adjustment	
Connecting Rod	
Pivot Pin	
Pivot Bearings	
Center Sheath	
Shield	
Launcher Platform Rail	
Travel Lock Assy	
Pivot Assy	
Bumper	
Stop	
Bracket, Connecting Rod	

LIST OF REPAIR PARTS AND ASSEMBLIES REQUIRED FOR REPAIRS

COMPONENT:	
Mercury Switch Box Pendulum Box Assy	REMARKS:
Rockets Power Distribution Box	
Rocker Arm Support Arm Arm	
Sheath Port/Starboard Intermediate Sheath	
Sequence Lock Manifold	
Sequence Lck Manifold Hydraul Asy	
Support Arm Tube Assys	
Elbow	
Elbow Bracket Three-Hole Bulkhead	
Tube Angle Mounting	
Launcher Housing Tube Assys	
Junction Box A	
Junction Box B	
Limit Switch	
Limit Switch Arm Bracket Wiring	
Harness Wl5	
Pivot Bracket	
Spring	
Test Plugs	
Nipple	
Coupler	
Lower Seal	
Sheath	
Intermediate Housing Sheath	
Port Housing Guard Starboard	
Housing Guard	
Forward Port Housing Guard	
Aft Port Housing Guard	
Forward Starboard Housing Guard	
Aft Starboard Housing Guard	
Port/Starboard Bar	
Swivel Elbow (Port H2)	
Tie-Down and Adapter Assy	
Tie-Down Adapter	
Tie-Down Assy Aft Wall Guard Aft	
Guard Assy Aft Port Guard Aft Starboard Guard Forward Guard Assy	
Cable Guide Starboard Cable Guide	
Aft Port Cable Guide Lower Engine	
Access Cover Latch Upper Eng	
Access Cover Striker Rail	
Center Channel Assy	
Aft Pallet Rail Tie-Down Bracket	
Port/Starboard Ramp	
COMPONENT:	

LIST OF REPAIR PARTS AND ASSEMBLIES REQUIRED FOR REPAIRS

Rear Pallet Assy
Wear Plate
Quick Release Pins
Starboard Ramp Crossmember
Ramp Wear Plates
Aft Pallet
Forward Pallet Assy
Housing to Forward Pallet Hose Assy
Capstan Hydraulic Hose Assys
Forward Pallet Rail Tie-Down Bracket
Quick Disconnect Coupler Fitting
Power Distribution Box Assy
Quick Disconnect Nipple Fitting
200A Circuit Breaker
2A Circuit Breaker
10A Circuit Breaker
200A Relay
10A Relay
Terminal Block Indicator Light Assy
Toggle Switch Slave Plug Capstan with Hydraulic Motor Assy Capstan
Drum Reduction Gearbox
Reduction Gearbox Lubricating Oils
Reduction Gearbox Oil Change
Hydraulic Filter Change
Capstan Hydraulic Motor
Hydraulic Power Unit
Manual Hydraulic Pump
Manual Hydraulic Pump Handle
Electric Motor/Hydraulic Pump
Electric Motor/Hydraulic Pump
Control Manifold
Reservoir Assy
Sight Glass
Relief Valve
Pressure Gauge
Manual Pump Outlet Tube
Manual Pump Inlet Tube
Clip Spring
Hydraulic Pump Inlet Tube
Hydraulic Pump Outlet Tube
Wiring Harness W12
Wiring Harness W13
Wiring Harness W14
Arm Switch

REMARKS:

COMPONENT:
Control Box

LIST OF REPAIR PARTS AND ASSEMBLIES REQUIRED FOR REPAIRS

Contrl Bx & Mounting Brackets Assy
Brackets
Lamps
Selector Knob
Toggle Switch Guard
Receptacles
Receptacle Connections
10A Relay
Relay Connections
Filters
Filter Connections
System Power Switch
System Power Switch Connections
Panel Light
Panel Light Connections
Push Switches
Push Switch Connections
Rotary Switch
Rotary Switch Connections
Launch Angle Indicator
Circuit Board Assy
Circuit Board Assy Connections
Indicator Light
Indicator Light Connections
Raise/Lower Switch
Raise/Lower Switch Connections
Electric Wire
Wire Connections
Container, Top
Container , Bottom
Gasket, Container Joint

REMARKS:

LIST OF REPAIR PARTS AND ASSEMBLIES REQUIRED FOR REPAIRS

ADDITIONAL NOTES:

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
Mine Clearance Launcher, MK 154		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A001	Contractor's Progress, Status, and Management Report	Management

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MGMT-80227	SOW 4.2	MCLBA (837)

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	MTHLY	See Blk 16

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
		See Blk 16

16. REMARKS

Contractor format is authorized.

Blk 4 - Tailor DI-MGMT-80227 as follows: Delete paragraphs 10.3g, 10.3h, 10.3i, 10.3j, 10.3k, and 10.3n.

Blk 12 - The reporting period shall be from the first to last business day of each month. Initial submission shall be 60 DAC.

Blk 13 - Subsequent submissions shall be 10 days after the last business day of each month.

Distribution Statement A: Approved for public release, distribution is unlimited.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
MCLBA (837-1)	0	1	0
15. TOTAL →	0	1	0

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Gerald R Hall	02/14/01	Gerald R Hall	02/14/01

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
Mine Clearance Launcher, MK 154		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
B001	Repairable Item Inspection Report	Integrated Logistics Support Standards

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-ILSS-80386	SOW 4.1	MLCBA (837)

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ASREQ	See Blk 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
			See Blk 16

16. REMARKS

Contractor format is authorized.

Blk 10 - A separate report shall be submitted for each Mine Clearance Launcher, MK 155 repaired.

Blks 12 & 13 - Submit report by Marine Corps Serial Number 30 days after completion of each Mine Clearance Launcher, MK 155.

Blk 14 - Reports shall be provided on hard copy.

Distribution Statement A: Approved for public release, distribution is unlimited.

14. DISTRIBUTION

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	Draft	Final	
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MCLBA (837-1)	0	1	0
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17. PRICE GROUP

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G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Gerald M Hall	02/14/01	Gerald M Hall	02/14/01

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X
D. SYSTEM/ITEM: Mine Clearance Launcher, MK 154	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
C001	Request For Deviation	Configuration Management

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80640C	SOW 3.3.2	MCLBA (851)

7. DD Z50 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ASREQ	SEE BLK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**

16. REMARKS

Blk 4 - Contractor format in .doc or .pdf software is authorized.

Blks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation.

RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government.

RFDs shall be submitted via e-mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil

Distribution Statement A: Approved for public release, distribution is unlimited

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final Reg	Final Repro
MCLBA (851-2)	0	1	0
15. TOTAL →	0	1	0

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Doug Smith	2-14-01	[signature]	04/14/01